

Connector Type >>>>		Datamate Coax	M300	Datamate Power	Datamate T-Contact	Datamate Signal 22, 24, 30AWG	Datamate Signal 26-28AWG	Gecko Signal	Gecko Power 18AWG	Kona Power
Testing Requirements										
IPC Class	3 - 1	2	3	2	3	3	3	3	3	2
Continuity Test	2Ω	2Ω	2Ω	2Ω	2Ω	2Ω	2Ω	2Ω	2Ω	2Ω
Continuity test will only be completed on double ended cable assemblies. No continuity tests are carried out on single ended cable assemblies.										
Shorts Test	Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IPC-A-620 Hi-pot Dielectric Withstanding Voltage	1,500V DC, 1mA, 1 sec. dwell	1,000V DC at 1GΩ, Max. leakage current is 1mA, 1 sec. dwell	1,800V DC, 1mA, 1 sec. dwell	1,200V DC, 1mA, 1 sec. dwell	1,200V DC, 1mA, 1 sec. dwell	1,200V DC, 1mA, 1 sec. dwell	1,200V DC, 1mA, 1 sec. dwell	600V DC, 1mA, 1 sec. dwell	1,000V DC, 1mA, 1 sec. dwell	3,000V DC, 1mA, 1 sec. dwell
IPC-A-620 Insulation Resistance	100MΩ, 10 sec. max dwell	1GΩ, 1 sec. dwell per net	1GΩ, 1 sec. dwell per net	1GΩ, 1 sec. dwell per net	1GΩ, 1 sec. dwell per net	1GΩ, 1 sec. dwell per net	1GΩ, 1 sec. dwell per net	500MΩ, 1 sec. dwell per net	1GΩ, 1 sec. dwell per net	1GΩ, 1 sec. dwell per net
Connector Performance Levels										
Voltage Rating	Harwin Component Specification	1,000V AC	1,800V DC	800V DC	1,200V DC	1,200V DC	1,200V DC	600V DC	1,000V DC	3,000V DC
Current Rating		0.5A	5.0A - 10.0A	5.0 - 40.0A	up to 8.5A	3.0A	3.0A	2.0A	10.0A	60.0A
Operating Temperature		-55°C to +125°C	-65°C to +175°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-65°C to +150°C	-65°C to +150°C	-65°C to +150°C
Pitch		4.00mm	3.00mm	4.00mm	2.00mm	2.00mm	2.00mm	1.25mm	3.00mm	8.50mm
Material Requirements										
Potting compound to be used*	N/A	Epoxies 50-3122	N/A	Stycast 2651MM Black with Catalyst 9	Stycast 2651MM Black with Catalyst 9	Stycast 2651MM Black with Catalyst 9	Stycast 2651MM Black with Catalyst 9	Stycast 2651MM Black with Catalyst 9	Stycast 2651MM Black with Catalyst 9	N/A
*Backpotting compound will only be applied to connectors that have backpotting walls										
Heat shrink to be used	N/A	N/A	PM5/PF5 Contacts: HS2T-018B (WIM2364) Other Power Contacts: FIT221-1/8-0 (WIM2278)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Braiding to be used** (See drawing for identification)	A-A-59569 (or MIL-Spec QQB575R) Tin-Plated Copper Braid OR Silver-Plated Copper Braid	N/A	N/A	A-A-59569 (or MIL-Spec QQB575R) Tin-Plated Copper Braid OR Silver-Plated Copper Braid	A-A-59569 (or MIL-Spec QQB575R) Tin-Plated Copper Braid OR Silver-Plated Copper Braid	A-A-59569 (or MIL-Spec QQB575R) Tin-Plated Copper Braid OR Silver-Plated Copper Braid	A-A-59569 (or MIL-Spec QQB575R) Tin-Plated Copper Braid OR Silver-Plated Copper Braid	A-A-59569 (or MIL-Spec QQB575R) Tin-Plated Copper Braid OR Silver-Plated Copper Braid	N/A	A-A-59569 (or MIL-Spec QQB575R) Tin-Plated Copper Braid OR Silver-Plated Copper Braid
**Braiding is only used where specified by the part number										
Twisted cables to be used***	2 Turns per inch (TPI)	N/A	N/A	N/A	22AWG: 1 x White & 1 x Red	22AWG: 1 x White & 1 x Red 24AWG: 1 x White & 1 x Red	26AWG: 1 x White & 1 x Red 28AWG: 1 x White & 1 x Red	26AWG: 1 x White & 1 x Red 28AWG: 1 x White & 1 x Red	N/A	N/A
	3 Turns per inch (TPI)	N/A	N/A	N/A	22AWG: 1 x White & 1 x Green	22AWG: 1 x White & 1 x Green 24AWG: 1 x White & 1 x Green	26AWG: 1 x White & 1 x Green 28AWG: 1 x White & 1 x Green	26AWG: 1 x White & 1 x Green 28AWG: 1 x White & 1 x Green	N/A	N/A
***Twisted pairs are only used where specified by the part number										
Harwin cable assemblies will be manufactured using these cables (unless otherwise specified on individual product drawings):										
Wire specification	RG178 COAX wire, Natural Tan FEP Jacket (3 GHz)	M22759/11-xx	M22759/11-xx	MIL 16878/6	MIL 16878/6	M22759/11-xx	MIL 16878/6	NEMA HP 3 Type ET	M22759/11-18	N/A
Wire Gauges	-	18-22AWG	10-20AWG	22AWG	22, 24 & 30AWG	26-28AWG	26-30AWG	18AWG	8AWG	
Wire Voltage Rating	1,000V	600V	600V	250V	250V	600V	250V	600V	>3kV	
Wire Insulation Material Type	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	Silicone	
Cable Ties (when applicable)	<ul style="list-style-type: none"> • Cable ties supplied by Panduit Corp. - Part No. PLTIM-M - 2.5mm wide - PA66 Natural • Use of Cable Ties: - Cable ties will not be applied to cables shorter than 1m long - 1.001-1.500m cables will have a single tie centrally positioned - An additional tie will be applied for each extra 50cm of cable (ie. 1.501-2.000m will have 2 equally spaced ties, 2.001-2.500m will have 3 equally spaced ties, etc.) 									